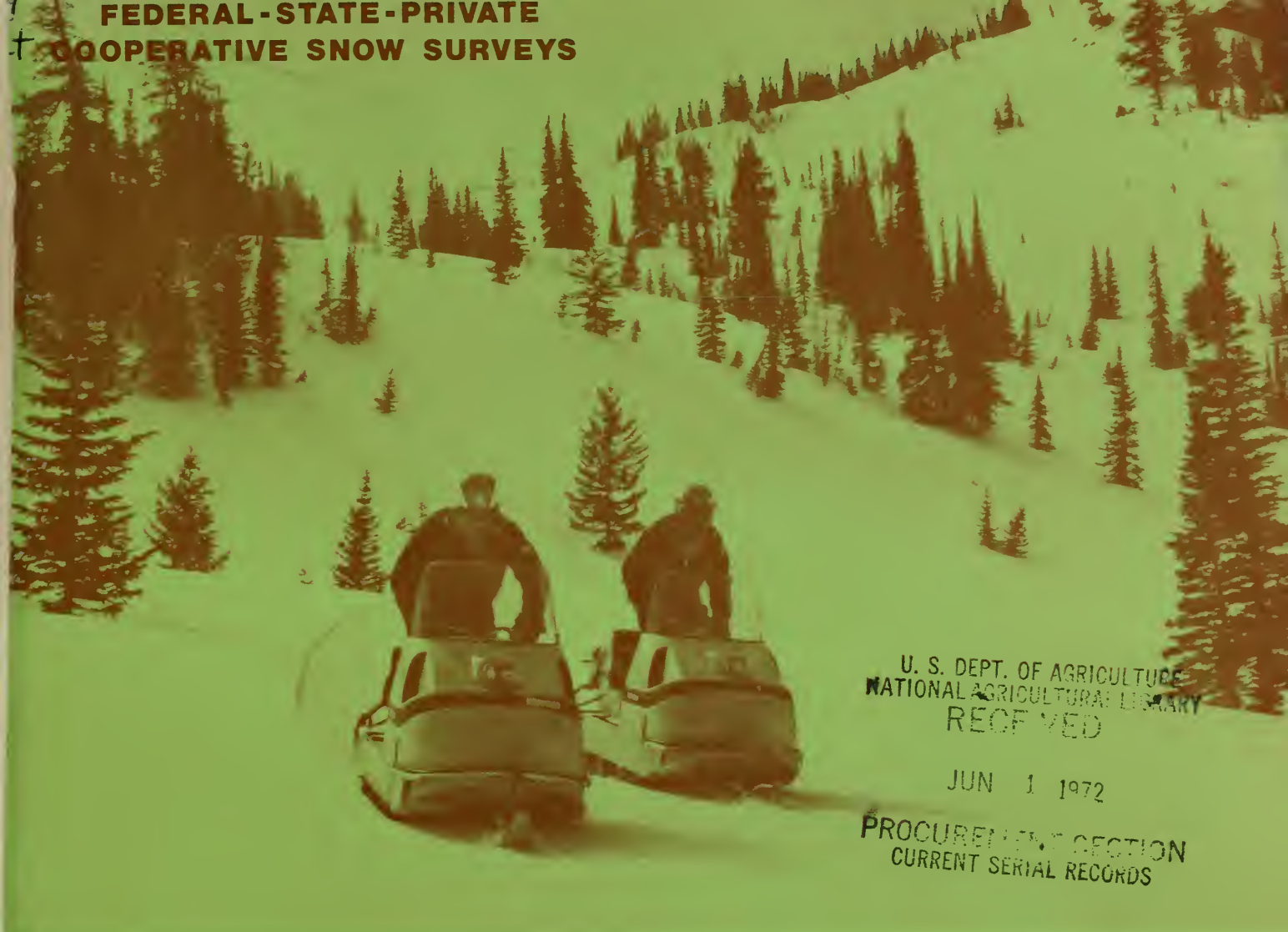


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FEDERAL-STATE-PRIVATE

+ COOPERATIVE SNOW SURVEYS



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PROCUREMENT SECTION
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WATER SUPPLY OUTLOOK FOR IDAHO

Prepared by

U. S. DEPARTMENT of AGRICULTURE ★ SOIL CONSERVATION SERVICE

Collaborating with

IDAHO STATE DEPARTMENT OF WATER ADMINISTRATION

Data included in this report were obtained by the agencies named above in cooperation with Federal, State and private organizations listed inside the back cover of this report.

AS OF
MAY 1, 1972

Most of the usable water in western states originates as mountain snowfall. This snowfall accumulates during the winter and spring, several months before the snow melts and appears as streamflow. Since the runoff from precipitation as snow is delayed, estimates of snowmelt runoff can be made well in advance of its occurrence. Streamflow forecasts published in this report are based principally on measurement of the water equivalent of the mountain snowpack.

Forecasts become more accurate as more of the data affecting runoff are measured. All forecasts assume that climatic factors during the remainder of the snow accumulation and melt season will interact with a resultant average effect on runoff. Early season forecasts are therefore subject to a greater change than those made on later dates.

The snow course measurement is obtained by sampling snow depth and water equivalent at surveyed and marked locations in mountain areas. A total of about ten samples are taken at each location. The average of these are reported as snow depth and water equivalent. These measurements are repeated in the same location near the same dates each year.

Snow surveys are made monthly or semi-monthly from January 1 through June 1 in most states. There are about 1900 snow courses in Western United States and in the Columbia Basin in British Columbia. Networks of automatic snow water equivalent and related data sensing devices, along with radio telemetry are expanding and will provide a continuous record of snow water and other parameters of key locations.

Detailed data on snow course and soil moisture measurements are presented in state and local reports. Other data on reservoir storage, summaries of precipitation, current streamflow, and soil moisture conditions at valley elevations are also included. The report for Western United States presents a broad picture of water supply outlook conditions, including selected streamflow forecasts, summary of snow accumulation to date, and storage in larger reservoirs.

Snow survey and soil moisture data for the period of record are published by the Soil Conservation Service by states about every five years. Data for the current year is summarized in a West-wide basic data summary and published about October 1 of each year.

COVER PHOTO NUMBER ORC 221-3

PUBLISHED BY SOIL CONSERVATION SERVICE

The Soil Conservation Service publishes reports following the principal snow survey dates from January 1 through June 1 in cooperation with state water administrators, agricultural experiment stations and others. Copies of the reports for Western United States and all state reports may be obtained from Soil Conservation Service, Western Regional Technical Service Center, Room 209, 701 N. W. Glisan, Portland, Oregon 97209.

Copies of state and local reports may also be obtained from state offices of the Soil Conservation Service in the following states:

STATE	ADDRESS
Alaska	P. O. Box "F", Palmer, Alaska 99645
Arizona	6029 Federal Building, Phoenix, Arizona 85025
Colorado (N. Mex.)	P. O. Box 17107, Denver, Colorado 80217
Idaho	Room 345, 304 N. 8th. St., Boise, Idaho 83702
Montana	P. O. Box 970, Bozeman, Montana 59715
Nevada	P. O. Box 4850, Reno Nevada 89505
Oregon	1218 S. W. Washington St., Portland, Oregon 97205
Utah	4012 Federal Bldg., 125 South State St., Salt Lake City, Utah 84111
Washington	360 U.S. Court House, Spokane, Washington 99201
Wyoming	P. O. Box 2440, Casper, Wyoming 82601

PUBLISHED BY OTHER AGENCIES

Water Supply Outlook reports prepared by other agencies include a report for California by the Water Supply Forecast and Snow Surveys Unit, California Department of Water Resources, P. O. Box 388, Sacramento, California 95802 --- and for British Columbia by the Department of Lands, Forests and Water Resources, Water Resources Service, Parliament Building, Victoria, British Columbia



WATER SUPPLY OUTLOOK FOR IDAHO

and
FEDERAL - STATE - PRIVATE COOPERATIVE SNOW SURVEYS

Issued by

KENNETH E. GRANT

ADMINISTRATOR
SOIL CONSERVATION SERVICE
WASHINGTON, D.C.



Released by

GUY W. NUTT

STATE CONSERVATIONIST
SOIL CONSERVATION SERVICE
BOISE, IDAHO

In Cooperation with

R. KEITH HIGGINSON

DIRECTOR
DEPARTMENT OF WATER ADMINISTRATION



Report prepared by

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SOIL CONSERVATION SERVICE
SNOW SURVEY SECTION
ROOM 345, 304 N. 8th. ST.
BOISE, IDAHO 83702

WATER SUPPLY OUTLOOK for IDAHO



GENERAL SUMMARY - MAY 1, 1972

The 1971-72 winter has been another heavy snow accumulation season. By February 1, 1972 new record snow-water equivalent readings were established for many key snow courses throughout Idaho. The snowpack was above normal at all elevations but particularly so at low elevations. Some minor flooding occurred on a few low elevation watersheds during January and February when warm temperatures melted the snowpack. Snowfall during February, March and April was normal or slightly below normal; however, the snow accumulation up to May 1 remains well above average except for a few low elevation drainages. New record snowpack still remains on several key snow courses in the state, particularly on the Spokane and Clearwater Rivers in north Idaho and the southern tributaries of the Snake River in southern Idaho and northern Nevada.

Water supply is forecast to be good to excellent throughout the state. Prospective streamflow is forecast for a low of 95% of normal on the Little Wood River to a high of 192% of average for Oakley Reservoir Inflow. Near record seasonal flow is predicted for the Spokane River at Post Falls and the Clearwater River at Spalding.

Carryover storage from the 1970-71 season was excellent and many reservoirs had to be drawn down in anticipation of high volume flows indicated by the record snowpack. It is predicted that all reservoirs will fill

during the spring melt. If irrigation demand is not too great, due to below normal valley precipitation in April and early May, it is possible that Oakley and Salmon Falls reservoirs will fill for the first time on record.

Soil moisture remains good to excellent in general, though some surface depletion has been noted in farming areas.

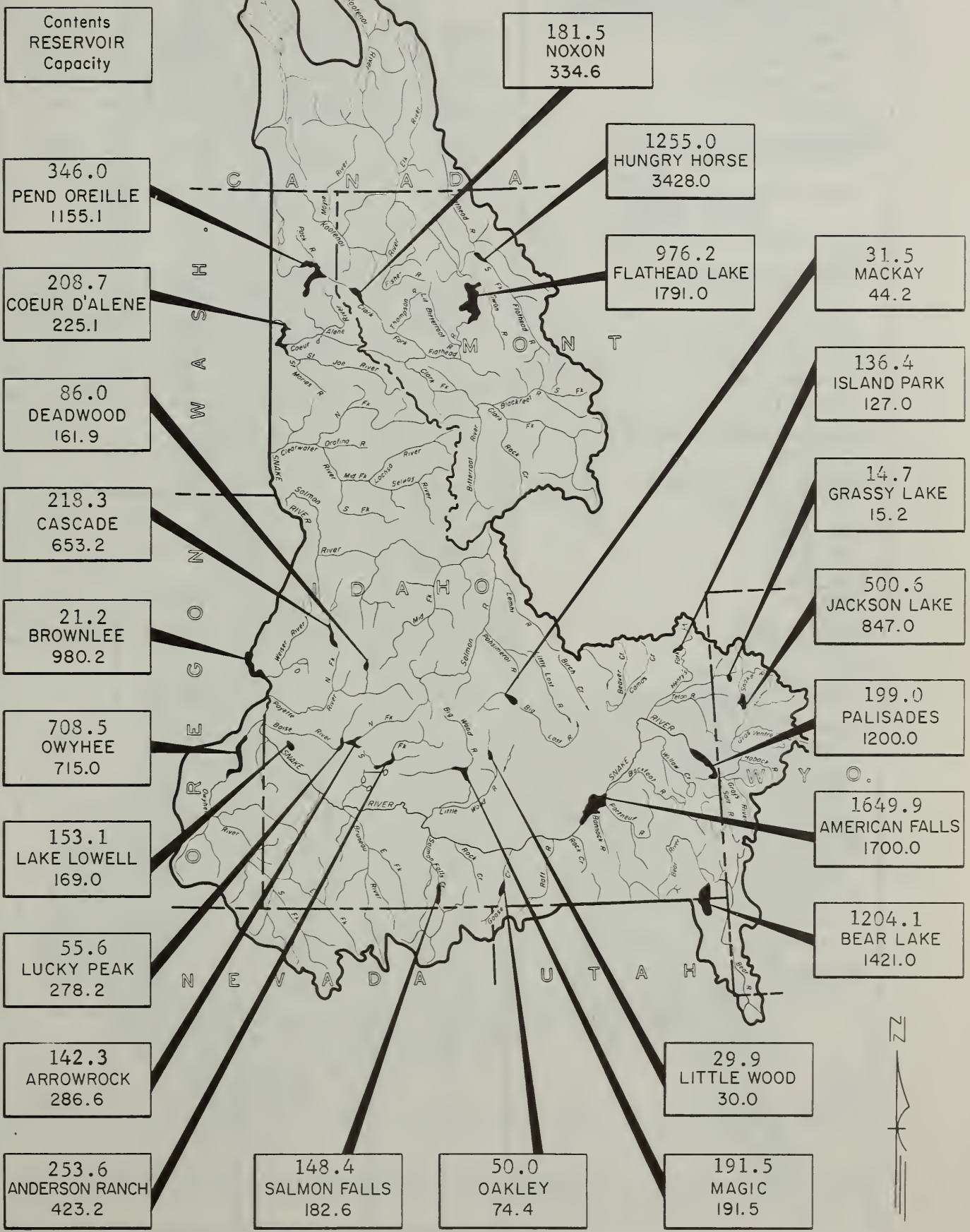
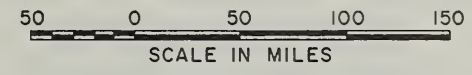
Valley precipitation during April ranged from well below normal in the Snake River Plain division to slightly above average in the Pend Oreille-Spokane and Clearwater divisions. For the period November 1971 through April 1972 valley precipitation is above to well above average in all divisions.

As a result of near record runoff during March and early April, caused by depletion of low elevation snow cover, the potential for flooding has been greatly diminished. The Clearwater River and St. Joe River drainages, however, still have such a potential in the record snowpack existing on the divide between them. Possibility for flooding in these watersheds would be greatly increased by excessive warm temperatures and warm rain during May and early June.

RESERVOIR STORAGE

USABLE CONTENTS (1,000 Acre Feet)

MAY 1, 1972



RESERVOIR STORAGE (1,000 Ac. Ft.)

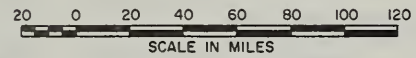
RESERVOIR	USABLE CAPACITY	MEASURED (First of Month)		
		THIS YEAR	LAST YEAR	1953-67 AVERAGE
<u>UPPER COLUMBIA BASIN</u>				
<u>Clark Fork - Pend Oreille</u>				
Hungry Horse	3428.0	1255.0	1647.0	1974.0*
Flathead	1791.0	976.2	1083.0	933.7
Pend Oreille	1155.1	346.0	478.1	493.8
Noxon	334.6	181.5	148.5	144.9*
<u>Spokane</u>				
Coeur d'Alene	225.1	208.7	281.3	286.6
<u>SNAKE BASIN</u>				
<u>Snake</u>				
Jackson Lake	847.0	500.6	500.8	438.8
Palisades	1200.0	199.0	120.9	803.4*
American Falls	1700.0	1649.9	1698.9	1664.3
Island Park	127.0	136.4	134.9	133.1
Grassy Lake	15.2	14.7	12.7	11.5
Brownlee	980.2	21.2	52.9	515.2*
<u>Goose-Trapper Creeks</u>				
Oakley	74.4	50.0	50.5	24.3
<u>Salmon Falls Creek</u>				
Salmon Falls	182.6	148.4	93.9	46.9
<u>Big Lost</u>				
Mackay	44.2	31.5	26.1	33.5
<u>Big Wood</u>				
Magic	191.5	191.5	189.2	167.7
<u>Little Wood</u>				
Little Wood	30.0	29.9	21.7	21.5*
<u>Fish Creek</u>				
Carey Valley	14.4	13.9	14.1	--
<u>Boise</u>				
Anderson Ranch	423.2	253.6	212.2	284.4
Arrowrock	286.6	142.3	241.1	230.7
Lucky Peak	278.2	55.6	32.7	147.3*
Lake Lowell (Deer Flat)	169.0	153.1	157.8	156.3
<u>Owyhee</u>				
Owyhee	715.0	708.5	699.0	531.9
<u>Payette</u>				
Cascade	653.2	218.3	247.4	327.8
Deadwood	161.9	86.0	79.5	89.1
<u>Weiser</u>				
Mann Creek	11.1	10.5	11.3	--
<u>GREAT BASIN</u>				
<u>Bear</u>				
Bear Lake	1421.0	1204.1	1202.0	951.9
*Period of Record.				

PROSPECTIVE STREAMFLOW

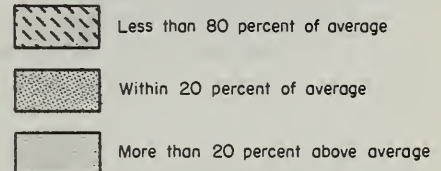
Based on Snow Surveys made on approximately

MAY 1, 1972

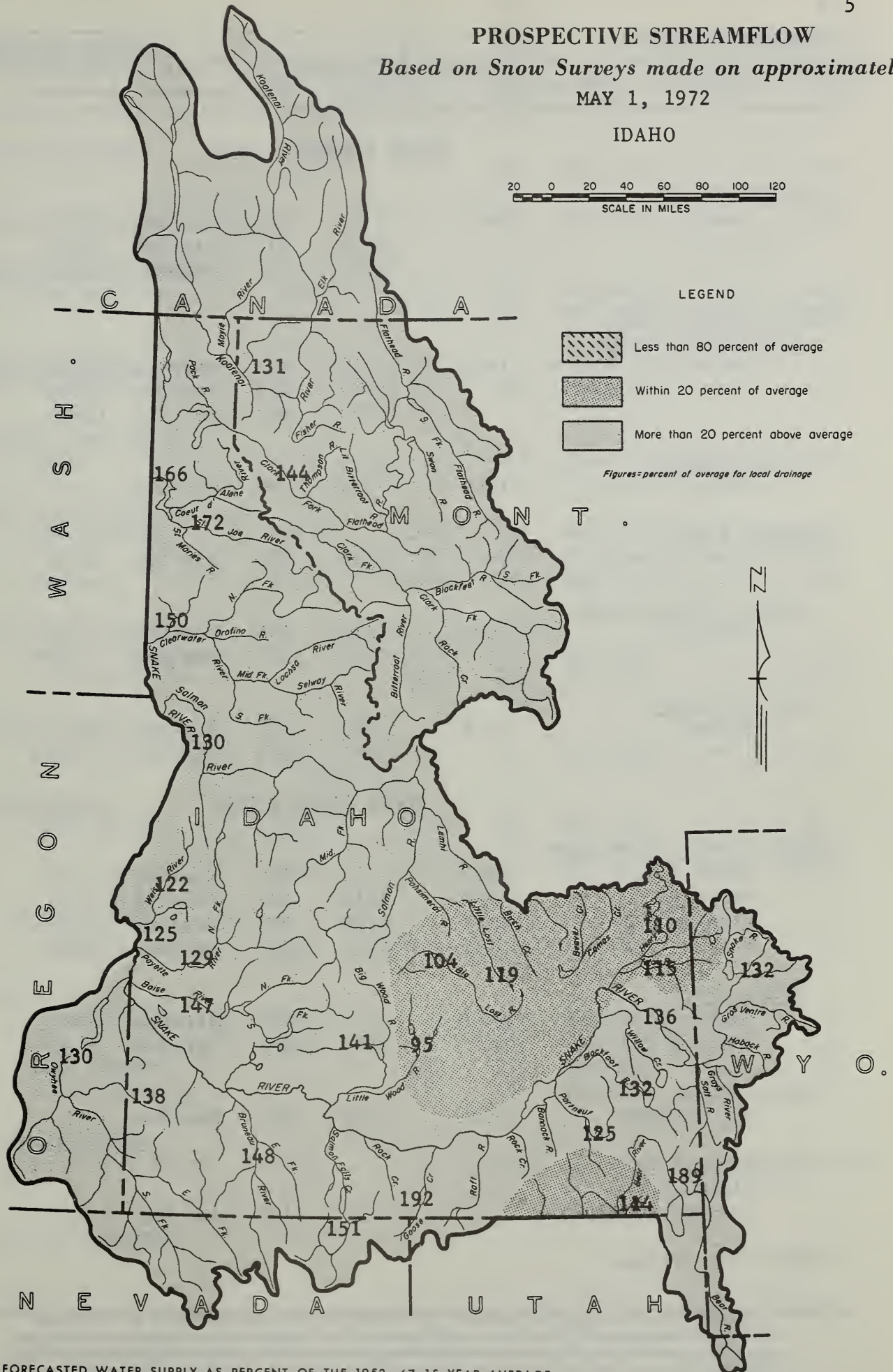
IDAHO



LEGEND



Figures=percent of average for local drainage



FORECASTED WATER SUPPLY AS PERCENT OF THE 1953-67 15 YEAR AVERAGE

STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR			PAST RECORD	
	FORECAST		FORECAST PERIOD	THOUSAND ACRE FEET	
	Thousand Acre Feet	Percent of Average		Last Year	Average †

UPPER COLUMBIA BASINKOOTENAI RIVER

Leonla	(at)	11000	131	May-Sep	9662	8397
		9650	133	May-Jul	8402	7271
		7500	132	May-Jun	6594	5662

PEND OREILLE RIVERClark Fork River

Whitehorse Rapids	(at)	17800	144	May-Sep	15006	12313
		15900	143	May-Jul	13766	11112
		13200	142	May-Jun	11628	9278

Priest River

Priest River 1/	(nr)	715	99	May-Jul	--	721
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SPOKANE RIVER

Post Falls 2/	(at)	3500	166	May-Sep	2862	2110
---------------	------	------	-----	---------	------	------

Coeur d'Alene River

Cataldo	(nr)	1220	149	May-Sep	--	820
		1140	150	May-Jul	--	762

St. Joe River

Calder	(at)	1790	172	May-Sep	--	1040
		1685	173	May-Jul	--	974

SNAKE RIVER BASINSNAKE RIVER - MAIN STEM

Moran 3/	(at)	1060	132	May-Sep	--	800
Heise 4/	(nr)	4650	136	May-Sep	5766	3410
Blackfoot 5/	(nr)	4750	135	May-Jul	--	3521
Weiser	(at)	6250	125	May-Sep	8300	5002

Henry's Fork

Ashton 6/	(nr)	565	110	May-Sep	--	513
Rexburg 7/	(nr)	1220	111	May-Sep	--	1100

Teton River

St. Anthony	(nr)	405	115	May-Sep	--	353
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Blackfoot River

Blackfoot Reservoir Inflow		135	132	Apr-Sep	--	102*
----------------------------	--	-----	-----	---------	----	------

*1948-1962 Average

(c) Assuming normal meteorological conditions. 1/ Observed flow corrected for storage in Priest Lake.
 2/ Observed flow corrected for storage in Coeur d'Alene Lake 3/ Corrected for storage in Jackson Lake.
 4/ Corrected for storage in Jackson Lake and Palisades. 5/ Corrected for storage in Jackson Lake, Palisades, Island Park, Henry's Lake, Grassy Lake and diversions between Heise and Blackfoot. 6/ Corrected for storage in Henry's Lake and Island Park Reservoir. 7/ Corrected for storage in Henry's Lake, Island Park, Grassy Lake and diversions between Ashton and Rexburg.
 † 1953-1967 period.

STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT		THIS YEAR			PAST RECORD	
		FORECAST		FORECAST PERIOD	THOUSAND ACRE FEET	
		Thousand Acre Feet	Percent of Average		Last Year	Average †
<u>Portneuf River</u>						
Topaz	(at)	70	125	May-Sep	--	56.2
<u>Oakley Reservoir Inflow</u>		30	192	May-Sep	--	15.6
<u>Salmon Falls Creek</u>						
San Jacinto	(nr)	70	151	May-Sep	--	46.3
		65	151	May-Jul	--	43.0
<u>Bruneau River</u>						
Hot Springs	(nr)	210	148	May-Sep	--	142
<u>Little Lost River</u>						
Howe	(nr)	36	119	May-Sep	--	30.6
<u>Big Lost River</u>						
Howell Ranch	(at)	200	107	May-Sep	--	186
		140	109	May-Jun	--	128
Mackay <u>1/</u>	(nr)	165	104	May-Sep	--	159
<u>Big Wood River</u>						
Magic Reservoir		260	141	May-Sep	--	184
Inflow <u>2/</u>		230	143	May-Jul	--	161
<u>Little Wood River</u>						
High Five Creek	(ab)	60	95	May-Sep	--	63
<u>Boise River</u>						
Twin Springs	(nr)	875	147	May-Sep	--	594
		800	148	May-Jul	--	542
Boise <u>3/</u>	(nr)	1800	147	May-Sep	2087	1230
<u>South Fork</u>						
Anderson Dam <u>4/</u>	(at)	675	144	May-Sep	--	468
<u>Owyhee River</u>						
Gold Cr., Nev. <u>5/</u>	(nr)	15	188	May-Jul	18	8
Owyhee, Nev. <u>5/</u>	(nr)	50	132	May-Jul	128	38
Lake Owyhee		232	130	May-Sep	277	179
net inflow <u>6/</u>		210	131	May-Jul	251	160
<u>Jordan Creek</u>						
Lone Tree Creek	(ab)	66	138	May-Jul	--	48.3*

*1955-1967 Average

(c) Assuming normal meteorological conditions. 1/ Observed flow corrected for storage in Mackay Reservoir
 2/ Combined flow Big Wood River nr. Bellevue and Camas Creek nr. Blaine. 3/ Corrected for storage in Arrow-
 rock, Anderson Ranch and Lucky Peak. 4/ Corrected for storage in Anderson Ranch Reservoir. 5/ Corrected for
 storage in Wild Horse Reservoir. 6/ From U.S.B.R. records of inflow.
 † 1953-1967 period.

STREAMFLOW FORECASTS

STREAMFLOW FORECASTS				THIS YEAR			PAST RECORD	
BASIN, STREAM and/or FORECAST POINT				FORECAST		FORECAST PERIOD	THOUSAND ACRE FEET	
				Thousand Acre Feet	Percent of Average		Last Year	Average †
<u>Payette River</u>								
Horseshoe Bend <u>1/</u> (nr)				1950	129	May-Sep	2485	1510
Banks <u>2/</u> (nr)				1090	134	May-Jul	--	816
<u>North Fork</u>								
Cascade <u>3/</u> (at)				590	129	May-Sep	--	458
Banks <u>3/</u> (nr)				740	129	May-Sep	--	574
<u>Weiser River</u>								
Weiser ab. Crane Creek <u>4/</u>				325	122	May-Sep	--	267
<u>Salmon River</u>								
Whitebird (at)				8050	130	May-Sep	9682	6190
Challis (nr)				1070	130	May-Sep	--	824
				930	131	May-Jul	--	710
<u>Clearwater River</u>								
Spalding (at)				10250	150	May-Sep	9067	6824
<u>GREAT BASIN</u>								
<u>BEAR RIVER</u>								
Harer (at)				340	189	May-Sep	--	180
<u>Montpelier Creek</u>								
Montpelier (nr)				20.5	236	May-Sep	--	8.7
<u>Cub River</u>								
Preston (nr)				50.0	114	May-Sep	--	43.7*

*1956-1967 Average.

(c) Assuming normal meteorological conditions. 1/ Corrected for storage in Cascade and Deadwood Reservoirs. 2/ Corrected for storage in Deadwood Reservoir. 3/ Corrected for storage in Cascade Reservoir. 4/ Observed flow of Weiser River nr. Weiser minus observed flow of Crane Creek at mouth. † 1953-1967 period.

VALLEY PRECIPITATION 1/

Division Averages and Departures

In Inches

DRAINAGE DIVISIONS	Spring		Fall - Winter	
	April 1972		Nov. 71 - Apr. 72	
	Observed	Departure <u>2/</u>	Observed	Departure <u>2/</u>
Kootenai, Canada & U. S.	2.32	+0.76	21.22	+5.54
Flathead	1.10	-0.63	15.06	+3.25
Clark Fork	0.87	-0.21	7.67	+2.12
Pend Oreille-Spokane	2.51	+0.18	24.43	+3.85
Upper Snake	1.78	-0.01	14.34	+2.52
Snake River Plain	0.51	-0.48	6.68	+1.38
Salmon-Payette-Boise	1.27	-0.44	14.64	+1.80
Clearwater	3.10	+0.28	22.29	+5.86
Owyhee-Malheur	0.50	-0.37	6.50	+0.45

1/ Preliminary analysis and data by the National Weather Service and Meteorological Service of Canada.

2/ Departure from 15-year (1953-67) drainage division average.

SNOW

DRAINAGE BASIN and/or SNOW COURSE		THIS YEAR			PAST RECORD	
		Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (inches)	
NAME	Elevation				Last Year	Average ⁶

UPPER COLUMBIA RIVER BASINKOOTENAI RIVER

Bear Mountain	5400	5/3	175	96.1	76.5	--
Halverson Creek	4850	5/3	117	64.8	56.4	--
Smith Creek	4800	5/2	118	59.8	54.9	49.4

PEND OREILLE - PRIEST RIVER

Benton Meadow	2344	4/30	0	0.0	0.0	0.0
Benton Spring	4900	4/30	40	19.2	16.7	17.1
#Mosquito Ridge (SP)	5110	4/30	--	47.0	--	--
Schweitzer Bowl	4500	4/28	66	32.7	34.0	--
Schweitzer Ridge	6100	4/28	125	57.8	58.5	--

SPOKANE RIVER

Above Burke	4100	4/29	68	32.1	24.8	--
Above Burke (SP)	4100	4/29	--	29.4	--	--
Copper Ridge	4800	4/27	77	40.3	26.2	27.8
#Forty-nine Meadows	5000	4/28	96	43.5	45.8	30.6*
Fourth of July Summit	3100	5/1	0	0.0	0.0	--
Granite Peak	6000	4/28	190	89.3	63.8	--
Lookout	5250	5/1	107	54.0	44.5	36.7
Lookout (SP)	5250	5/1	--	53.6	--	--
#Lost Lake	6000	4/28	224	105.3	82.0	62.7*
Lower Sands Creek	3400	4/27	61	28.0	20.6	14.6
Medicine Ridge	6150	4/28	155	77.5	63.0	--
Mosquito Ridge (SP)	5110	4/30	--	47.0	--	--
Outlaw Creek	3750	4/28	0	0.0	0.0	8.0*
Sherwin	3200	4/28	40	18.4	8.2	--

LOWER SNAKE RIVER BASINPALOUSE RIVER

Crumarine Creek	3340	4/27	0	0.0	0.0	0.0*
East Twin	4050	4/27	0	0.0	0.0	2.1*
Howard Creek	3450	4/27	0	0.0	0.0	0.0*
Moscow Mountain	4400	4/27	45	20.1	18.6	11.6*
West Twin	4250	4/27	0	0.0	0.0	0.0*

CLEARWATER RIVER

Anderson Butte (A)	6800	5/2	128	61.4	33.2	--
Anderson Ridge (A)	5400	5/2	59	27.7	14.0	--
Buck Meadows	5600	5/2	103	54.2	36.6	--
Cayuse Airstrip	3700	4/28	0	0.0	0.0	0.9*

(b) 1953-67, 15 year period. #Not located directly on this drainage. * Estimated 1953-67, 15 year Average. (A) Aerial observation Water content estimated. (SP) Pressure Pillow snow-water equivalent. (R) Radioactive Gage snow-water equivalent.

SNOW

DRAINAGE BASIN and/or SNOW COURSE		THIS YEAR			PAST RECORD	
		Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (inches)	
NAME	Elevation				Last Year	Average ⁶
Coolwater Mountain	6200	4/27	134	61.3	44.8	30.6*
Coolwater Mountain (SP)	6200	5/1	--	51.2	40.1	--
Crater Meadows	6100	4/28	160	76.0	58.4	47.2*
Crooked Fork	3800	4/26	28	13.7	--	--
Disgrace Butte (A)	6600	5/2	93	43.7	33.2	--
Elk Butte	5550	4/28	115	51.7	47.2	35.8*
Elk Mountain (A)	7500	5/2	155	74.4	50.5	--
Falls Point (A)	4600	5/2	56	24.6	13.0	--
Fish Lake Airstrip	5000	4/27	148	70.0	54.0	42.2*
Forty-nine Meadows	5000	4/28	96	43.5	45.8	30.6*
Goat Lake	6600	4/28	154	73.0	--	--
#Granite Peak	6000	4/28	190	89.3	63.8	--
Hemlock Butte	5500	4/27	185	78.0	65.0	53.9*
Hemlock Butte (SP)	5500	5/1	--	98.1	74.6	--
#Hoodoo Basin Mont.	6000	4/28	173	88.0	68.8	55.8
#Hoodoo Basin (SP) Mont.	6000	5/1	--	84.3	69.9	--
#Hoodoo Creek Mont.	5900	4/28	168	85.9	66.1	52.0*
Horse Creek #2 (A)	5100	5/2	87	39.2	24.8	--
Horse Creek #3 (A)	5100	5/2	69	31.7	15.2	--
Horse Creek #4 (A)	5400	5/2	93	41.8	24.8	--
Horse Creek Helispot	4100	5/2	61	26.0	--	--
Horse Point (A)	5700	5/2	75	36.8	25.5	--
Indian Hill (A)	6100	5/2	57	27.9	14.0	--
Lolo Pass	5230	4/26	106	51.9	39.9	32.7*
Lost Lake	6000	4/28	224	105.3	82.0	62.7*
Meadow Creek Lookout (A)	7000	5/2	107	51.4	35.3	--
#Medicine Ridge	6150	4/28	165	77.5	63.0	--
Mill Site	6700	5/2	107	51.0	40.3	--
Mountain Meadows	6300	5/2	81	39.8	33.0	--
#Nez Perce Pass Mont.	6575	5/2	60	28.0	21.3	13.9
Orogrande Mountain	7800	4/27	157	61.0	51.8	48.0*
Orogrande Mountain (R)	7800	5/2	--	57.9	50.8	--
Pierce Ranger Station	3170	5/1	12	6.3	0.2	1.9*
Powell Ranger Station	4230	4/26	14	6.6	0.0	--
Sable Hill (A)	6000	5/2	83	40.7	21.1	--
Savage Pass	6600	4/26	105	44.1	36.2	--
Shanghai Summit	4600	4/28	88	42.0	27.8	24.0*

SALMON RIVER

Big Creek Summit	6600	4/27	114	50.8	49.0	36.1
#Boulder Creek	5500	4/28	42	21.4	28.0	15.9*
Brundage Mountain	7560	4/27	141	61.9	67.5	--
#Deadwood Summit	7000	4/26	128	58.8	67.7	46.3*
#Galena Summit	8795	4/30	83	33.8	38.0	24.5
#Gibbons Pass Mont.	7100	5/1	79	36.6	33.7	23.1
Mill Creek Summit	8870	4/29	78	32.2	34.1	--
Moose Creek	6200	5/1	50	24.0	18.4	12.3*
Morgan Creek	7580	4/28	36	15.9	20.3	14.2*

(b) 1953-67, 15 year period. #Not located directly on this drainage. * Estimated 1953-67, 15 year Average. (A) Aerial observation Water content estimated. (SP) Pressure Pillow snow-water equivalent. (R) Radioactive Gage snow-water equivalent.

SNOW

DRAINAGE BASIN and/or SNOW COURSE		THIS YEAR			PAST RECORD	
		Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (inches)	
NAME	Elevation				Last Year	Average ^b
#Rock Flat Summit	5200	4/28	50	22.2	23.6	15.7*
#Secesh Summit	6600	4/25	101	47.3	--	--
#Squaw Meadow	5800	4/25	101	47.8	--	36.0*
Vienna Mine	8900	5/2	123	54.7	--	38.5*

Lemhi River

Above Gilmore	8200	4/27	36	13.3	14.9	--
Meadow Lake	9100	4/27	66	27.0	29.7	--

SOIL MOISTURE

STATION		PROFILE (Inches)		SOIL MOISTURE (Inches)			
		DEPTH	CAPACITY	DATE	THIS YEAR	LAST YEAR	2 YEARS AGO
NAME	ELEVATION						
<u>SPOKANE RIVER</u>							
Fourth of July Summit	3100	48	11.6	5/1	10.0	10.2	10.4
Lookout	5250	48	11.0	5/1	8.5	9.2	7.7
<u>SALMON RIVER</u>							
Mill Creek Summit	8870	48	8.4	4/29	3.8	5.5	4.4
<u>Lemhi River</u>							
Above Gilmore	8200	60	5.4	4/27	4.2	2.9	2.4
Meadow Lake	9100	48	4.4	4/27	2.5	2.4	2.0

(b) 1953-67, 15 year period. #Not located directly on this drainage. * Estimated 1953-67, 15 year Average. (A) Aerial observation Water content estimated. (SP) Pressure Pillow snow-water equivalent. (R) Radioactive Gage snow-water equivalent.

SNOW

DRAINAGE BASIN and/or SNOW COURSE		THIS YEAR			PAST RECORD	
		Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (inches)	
NAME	Elevation				Last Year	Average ⁶

MIDDLE SNAKE RIVER BASIN - NORTHSIDEBIG LOST RIVER

Bear Canyon	7920	5/2	43	16.4	--	--
Copper Basin	7650	5/2	11	4.8	--	--
Lost-Wood Divide	7900	5/2	68	28.8	--	--
Stickney Mill	7500	5/2	10	3.3	--	--

LITTLE WOOD RIVER

#Bear Canyon	7920	5/2	43	16.4	--	--
Swede Peak	7500	4/27	35	14.6	20.8	14.6*

BIG WOOD RIVER

#Couch Summit	6950	4/28	33	15.9	28.5	11.4*
Dollarhide Summit (A)	8620	5/2	86	35.0	--	--
Galena	7300	4/30	44	20.6	24.2	14.6
Galena Summit	8795	4/30	83	33.8	38.0	24.5
Graham Ranch	6200	4/26	18	7.2	9.5	--
#Lost-Wood Divide	7900	5/2	68	28.8	--	--
Mascot Mine	7900	4/26	31	13.3	--	--
Mount Baldy	9000	4/26	71	26.6	29.2	21.8
#Vienna Mine	8900	5/2	123	54.7	--	38.5*

BOISE RIVER

Atlanta Summit	7500	4/27	115	49.9	49.7	35.4*
Bad Bear	5500	4/26	37	17.3	7.3	4.1*
#Bogus Basin	6120	4/26	78	36.2	33.7	22.0
Couch Summit	6950	4/28	33	15.9	28.5	11.4*
Deadman Gulch	5600	4/24	45	20.4	--	9.2*
#Dollarhide Summit (A)	8620	5/2	86	35.0	--	--
Moore's Creek Summit	6100	4/26	104	49.0	44.4	29.7
Trinity Mountain	7780	4/28	126	61.4	61.2	42.9*
#Vienna Mine	8900	5/2	123	54.7	--	38.5*

PAYETTE RIVER

#Big Creek Summit	6600	4/27	114	50.8	49.0	36.1
Bogus Basin	6120	4/26	78	36.2	33.7	22.0
#Brundage Mountain	7560	4/27	141	61.9	67.5	--
Cozy Cove	5900	4/27	25	12.9	21.7	8.6
Crawford Ranger Station	4800	4/27	0	0.0	0.0	0.0*
#Deadman Gulch	5600	4/24	45	20.4	--	9.2*
Deadwood Airstrip	5440	4/27	21	10.1	17.5	6.4*
Deadwood Dam	5290	4/27	28	13.8	19.0	11.2
Deadwood Summit	7000	4/26	128	58.8	67.7	46.3*

(b) 1953-67, 15 year period. #Not located directly on this drainage. * Estimated 1953-67, 15 year Average. (A) Aerial observation Water content estimated. (SP) Pressure Pillow snow-water equivalent. (R) Radioactive Gage snow-water equivalent.

SNOW

DRAINAGE BASIN and/or SNOW COURSE		THIS YEAR			PAST RECORD	
		Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (inches)	
NAME	Elevation				Last Year	Average ^b
High Valley Summit	5170	4/24	24	10.8	--	--
Lake Fork	6000	4/27	40	18.2	--	--
Rock Flat Summit	5200	4/28	50	22.2	23.6	15.7*
Secesh Summit	6600	4/25	101	47.3	--	--
Squaw Meadow	5800	4/25	101	47.8	--	36.0*
Tripod Summit	5200	4/24	38	17.7	--	--

WEISER RIVER

Boulder Creek	5500	4/28	42	21.4	28.0	15.9*
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SOIL MOISTURE

STATION		PROFILE (Inches)		SOIL MOISTURE (Inches)			
		DEPTH	CAPACITY	DATE	THIS YEAR	LAST YEAR	2 YEARS AGO
NAME	ELEVATION						
<u>LITTLE LOST RIVER</u>							
Fairview Guard Station	5850	42	7.6	3/28	8.5 ^a	8.1 ^a	8.5 ^a
Wet Creek Summit	8175	48	17.1	3/29	13.5 ^a	15.0	13.2
<u>BIG WOOD RIVER</u>							
Galena	7300	48	10.1	4/30	8.8	8.6	6.5
Galena Summit	8795	48	5.8	4/30	1.8	Frozen	1.8
<u>BOISE RIVER</u>							
Bogus Basin Road	4830	48	7.1	4/26	5.7	5.6	5.7
a April Measurement							

(b) 1953-67, 15 year period. #Not located directly on this drainage. * Estimated 1953-67, 15 year Average. (A) Aerial observation Water content estimated. (SP) Pressure Pillow snow-water equivalent. (R) Radioactive Gage snow-water equivalent.

SNOW

DRAINAGE BASIN and/or SNOW COURSE		THIS YEAR			PAST RECORD	
		Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (inches)	
NAME	Elevation				Last Year	Average ⁶

MIDDLE SNAKE RIVER BASIN - SOUTHSIDERAFT RIVER

Howell Canyon	8000	5/1	87	43.6	37.5	--
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GOOSE CREEK

Badger Gulch	6660	4/28	30	15.3	11.4	--
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SALMON FALLS CREEK

#Bear Creek (A) Nev.	7800	4/30	60	24.0	23.8	19.4*
Cedar Creek (A)	7000	4/30	T	T	9.1	2.1*
Deadline	6900	4/26	68	35.6	30.0	18.1*
Goat Creek (A) Nev.	8800	4/30	52	26.5	29.7	18.2*
#Hummingbird Spgs. (A) Nev.	8945	4/30	106	42.4	38.0	22.8*
Magic Mountain	6700	4/26	59	30.1	24.0	14.5*
#Pole Creek R. S. Nev.	8330	4/26	71	28.4	31.9	21.6*
Red Point (A) Nev.	7940	4/30	21	8.4	15.0	9.0*
Wilson Creek (A)	7500	4/30	13	5.2	10.8	--

BRUNEAU RIVER

Bear Creek (A) Nev.	7800	4/30	60	24.0	23.8	19.4*
Hummingbird Spgs. (A) Nev.	8945	4/30	106	42.4	38.0	22.8*
Pole Creek R. S. Nev.	8330	4/26	71	28.4	31.9	21.6*
#Seventy-six Creek (A) Nev.	7100	4/30	17	6.8	--	--

OWYHEE RIVER

#Bear Creek (A) Nev.	7800	4/30	60	24.0	23.8	19.4*
#Seventy-six Creek (A) Nev.	7100	4/30	60	24.0	--	--
Silver City	6400	4/25	44	21.5	16.6	6.7*
South Mountain	6340	4/25	28	12.8	4.3	--

SOIL MOISTURE

STATION		PROFILE (Inches)		SOIL MOISTURE (Inches)			
		DEPTH	CAPACITY	DATE	THIS YEAR	LAST YEAR	2 YEARS AGO
NAME	ELEVATION						
<u>RAFT RIVER</u>							
Conner Pass	5700	36	9.8	5/1	9.4	9.4	9.2
Howell Canyon	8000	48	11.5	5/1	8.0	10.4	6.3
Sheep Hollow	6200	36	7.5	3/28	6.4 ^a	6.6 ^a	6.2 ^a
Sublett	6000	36	7.0	3/28	6.8 ^a	6.3 ^a	6.0 ^a
<u>GOOSE CREEK</u>							
Badger Gulch	6660	36	7.0	4/28	7.3	7.3	6.4

(b) 1953-67, 15 year period. #Not located directly on this drainage. * Estimated 1953-67, 15 year Average. (A) Aerial observation Water content estimated. (SP) Pressure Pillow snow-water equivalent. (R) Radioactive Gage snow-water equivalent.

SNOW

DRAINAGE BASIN and/or SNOW COURSE		THIS YEAR			PAST RECORD	
		Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (inches)	
NAME	Elevation				Last Year	Average ^b

UPPER SNAKE RIVER BASIN

HENRYS FORK RIVER

Big Springs	6500	4/26	38	19.8	27.5	17.0*
Black Canyon	7850	4/26	104	47.6	--	--
Black Moose	8125	4/26	116	53.6	--	--
Grassy Lake Wyo.	7230	5/1	90	45.3	50.5	32.6
Island Park	6315	4/27	16	7.0	17.5	9.7*
Latham Springs	7650	4/26	88	40.4	--	--
Lucky Dog	6900	4/26	58	29.2	--	--
Old Road	7250	4/26	76	37.2	--	--
Poacher's Cabin	8000	4/26	100	46.0	--	--
Sawtelle Mountain	8715	4/27	103	43.7	53.5	--
Targhee Pass	7000	4/27	40	16.9	24.2	14.0*
Valley View	6500	4/27	28	12.8	24.5	13.0*

TETON RIVER

Freds Mountain	8000	5/1	73	32.9	40.0	--
Pine Creek Pass	6750	5/1	31	15.3	20.5	11.0*
State Line	6400	5/1	22	10.7	15.7	8.5

BLACKFOOT RIVER

Slug Creek Divide	7225	4/28	38	19.6	--	--
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SOIL MOISTURE

STATION		PROFILE (Inches)		SOIL MOISTURE (Inches)			
		DEPTH	CAPACITY	DATE	THIS YEAR	LAST YEAR	2 YEARS AGO
NAME	ELEVATION						
<u>HENRYS FORK RIVER</u>							
Island Park	6315	48	9.9	4/27	9.6	9.2	8.2
Valley View	6500	48	13.3	4/27	11.7	11.8	12.6 ^a
<u>TETON RIVER</u>							
Pine Creek Pass	6750	48	13.3	5/1	14.7	14.5	12.2
State Line	6400	48	14.8	5/1	15.3	15.3	12.8
Teton Pass	8500	48	10.5	5/1	9.4	10.4 ^a	6.9
a April Measurement							

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SNOW

DRAINAGE BASIN and/or SNOW COURSE		THIS YEAR			PAST RECORD	
		Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (inches)	
NAME	Elevation				Last Year	Average ⁶

GREAT BASINBEAR RIVER

Emigrant Summit	7350	4/28	65	32.1	38.6	21.5*
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Montpelier Creek

Giveout	6840	5/1	25	11.6	14.7	--
Little Beaver	6970	5/1	43	21.9	19.6	--
Whiskey Flat	6985	5/1	9	3.5	9.8	--

Mink Creek

Christensen Ranch	5600	5/1	0	0.0	0.0	0.0*
#Emigrant Summit	7350	4/28	65	32.1	38.6	21.5*
Liberty Spring	8600	5/1	120	53.0	61.8	39.4*
Strawberry Creek	5800	5/1	0	0.0	4.3	2.1*
Strawberry Mink Divide	6800	5/1	39	19.2	29.0	14.1*

Cub River

Cub River R. S.	5400	5/1	0	0.0	0.0	0.0*
Willow Flat	6100	5/1	0	0.0	6.2	3.3*

SOIL MOISTURE

STATION		PROFILE (Inches)		SOIL MOISTURE (Inches)			
		DEPTH	CAPACITY	DATE	THIS YEAR	LAST YEAR	2 YEARS AGO
NAME	ELEVATION						
<u>BEAR RIVER</u>							
Emigrant Summit	7350	36	8.4	4/28	7.7	7.3	7.1
Strawberry Creek	5800	43	12.7	4/28	12.3	12.9	10.6
<u>Montpelier Creek</u>							
Giveout Pass	7025	36	9.4	5/1	7.5	7.6	4.2 ^a
Jenson Ranch	6580	43	18.7	5/1	16.1	17.9	10.8 ^a
a April Measurement							

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Agencies and Organizations Cooperating in Idaho Snow Surveys

GOVERNMENT AGENCIES

Canada:

Department of Lands, Forests, and
Water Resources, British Columbia
Department of Resources and Development,
Water Resources Division

States:

Idaho State Department of Water Administration
State of Idaho Department of Fish and Game
University of Idaho
Idaho State University
Montana Agricultural Experiment Station
Montana State Water Conservation Board
Nevada Cooperative Snow Surveys
Oregon Agricultural Experiment Station
Oregon Cooperative Snow Surveys
Oregon State Engineer and Corps of
State Watermasters
Utah Cooperative Snow Surveys
Wyoming Cooperative Snow Surveys

Federal:

U. S. Army Engineers

U. S. Department of Agriculture
Forest Service
Agriculture Research Service

U. S. Department of Commerce
NOAA, National Weather Service

U. S. Department of the Interior
Bonneville Power Administration
Bureau of Reclamation
Fish and Wildlife Service
Water Resources Division, Geological Survey
Indian Service
National Park Service
Bureau of Land Management

PUBLIC UTILITIES

The Montana Power Company
Washington Water Power Company
Idaho Power Company
Utah Power and Light Company

ORGANIZED PUBLIC AGENCIES

Big Lost River Irrigation District
Boise Project Board of Control
Little Wood River Irrigation District
Jordan Valley Irrigation District
Salmon Falls Creek Irrigation Company
Twin Falls Soil Conservation District
Twin Lakes Irrigation Company
Big Wood Irrigation Company
Owyhee Project - North & South Board of Control

PRIVATE CORPORATIONS

Amalgamated Sugar Company

*Other organizations and individuals furnish valuable information for
snow survey reports. Their cooperation is gratefully acknowledged.*

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with the Snow Survey"*

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